Toxicology, 45 (1987) 335–338
Elsevier Scientific Publishers Ireland Ltd.

TOXICOLOGY

SUBJECT INDEX

Volume 45 (1987)

Acrolein, cyclophosphamide, oxygen, lung toxicity, lipid peroxidation, 79
Adrenocorticotropin, corticosterone, cadmium, zinc, stress, 113
ALA-d, aminolevulinic acid dehydratase, birds, lead, heavy metal, erythrocyte, blood, 155
ALA-d, aminolevulinic acid dehydratase, blood, erythrocyte, lead, enzyme activation, bird, 165
Alcohol, ethyl, liver, glutathione, hepatotoxicity, glutamic-pyruvic-transaminase, sorbitol dehydrogenase, 213
Aminolevulinic acid dehydratase, ALA-d, birds, lead, heavy metal, erythrocyte, blood, 155
Aminolevulinic acid dehydratase, ALA-d, blood, erythrocyte, lead, enzyme activation, bird, 165
Aminooxyacetic acid, succinimides, fungicides, glutathione, diethyl maleate, halogenated hydrocarbons, 25
Arachidonic acid, hexachlorobenzene, cytochrome(s), phospholipids, membrane(s), 291
Aromatic solvent, xylene, toluene, brain lipids, phospholipid changes, 123
Aryl hydrocarbon hydroxylase, sidestream cigarette smoke, rodent lungs, benzo-[α]pyrene metabolism, chronic smoke exposure, 177

Bacterial toxicity assay, mycotoxins, swarming inhibition, toxins, 185
Benzo[*a*]pyrene metabolism, rat lung perfusion, combined liver-lung perfusion, protection, 143
Benzo[α]pyrene metabolism, sidestream cigarette smoke, aryl hydrocarbon hydroxylase, rodent lungs, chronic smoke exposure, 177
Biotransformation, succinimides, nephrotoxicity, 269
Bird, aminolevulinic acid dehydratase, ALA-d, blood, erythrocyte, lead, enzyme activation, 165
Birds, aminolevulinic acid dehydratase, ALA-d, lead, heavy metal, erythrocyte, blood, 155
Blood, aminolevulinic acid dehydratase, ALA-d, birds, lead, heavy metal, erythrocyte, 155
Blood, aminolevulinic acid dehydratase, ALA-d, erythrocyte, lead, enzyme activation, bird, 165
Brain, cadmium, metallothionein-like, monkey, 53
Brain lipids, xylene, toluene, aromatic solvent, phospholipid changes, 123

Ca absorption, cadmium, intestinal Ca-binding protein, intestinal Cd-binding protein, intestinal mucosa, metallothionein, inhibition of intestinal Ca absorption, Cd toxicity, ^{109}Cd, ^{45}Ca, 1
^{45}Ca, cadmium, intestinal Ca-binding protein, intestinal Cd-binding, Ca absorption, intestinal mucosa, metallothionein, inhibition of intestinal Ca absorption, Cd toxicity, ^{109}Ca, 1
Cadmium, adrenocorticotropin, corticosterone, zinc, stress, 113
Cadmium, intestinal Ca-binding protein, intestinal Cd-binding protein, Ca absorption, intestinal mucosa, metallothionein, inhibition of intestinal Ca absorption, Cd toxicity, ^{109}Cd, ^{45}Ca, 1
Cadmium, metallothionein-like, monkey, brain, 53
Cadmium, tissue distribution, excretion, sodium, *N*-benzyl-D-glucamine dithiocarbamate, chelating effect, 93

Calcium, cadmium-metallothionein, cadmium, nephrotoxicity, proteinuria, calcuria, luminal and basolateral,membrane vesicles, 307
Calcuria, cadmium-metallothionein, cadmium, calcium, nephrotoxicity, proteinuria, luminal and basolateral membrane vesicles, 307
Cadmium, cadmium-metallothionein, calcium, nephrotoxicity, proteinuria, calcuria, luminal and basolateral membrane vesicles, 307
Cadmium-metallothionein, cadmium, calcium, nephrotoxicity, proteinuria, calcuria, luminal and basolateral membrane vesicles, 307
^{109}Cd, cadmium, intestinal Ca-binding protein, intestinal Cd-binding protein, Ca absorption, intestinal mucosa, metallothionein, inhibition of intestinal Ca absorption, Cd toxicity, ^{45}Ca, 1
Cd toxicity, cadmium, intestinal Ca-binding protein, intestinal Cd-binding protein, Ca absorption, intestinal mucosa, metallothionein, inhibition of intestinal Ca absorption, ^{109}Cd, ^{45}Ca, 1
Chelating effect, cadmium, tissue distribution, excretion, sodium *N*-benzyl-D-glucamine dithiocarbamate, 93
Chemotaxis, polymorphonuclear leukocytes, superoxide anion, nicotine, cigarette smoke, 45
Chloride channel, methylcyclopentadienyl manganese tricarbonyl (MMT), seizures, [^{3}H]TBOB, manganese, 103
Chronic smoke exposure, sidestream cigarette smoke, aryl hydrocarbon hydroxylase, rodent lungs, benzo[α]-pyrene metabolism, 177
Cigarette smoke, inhalation, pulmonary thiols, systemic thiols, 203
Cigarette smoke, polymorphonuclear leukocytes, chemotaxis, superoxide anion, nicotine, 45
Combined liver-lung perfusion, benzo[a]-pyrene metabolism, rat lung perfusion, protection, 143
Corticosterone, adrenocorticotropin, cadmium, zinc, stress, 113
Covalent binding, 3-*tert*-butyl-4-hydroxyanisole, DNA, RNA, protein, 13
Cyclophosphamide, acrolein, oxygen, lung toxicity, lipid peroxidation, 79
Cytochrome(s), hexachlorobenzene, phospholipids, membrane(s), arachidonic acid, 291

Diacetoxyscirpenol (3-hydroxy-4,15-diacetoxy-12,13-epoxytrichothec-9-ene), trichothecene, teratogen, mycotoxin, 245
Dibenzofurans, dioxin, monoclonal antibodies, immunoassay, 229
Diethyl maleate, succinimides, fungicides, glutathione, halogenated hydrocarbons, aminooxyacetic acid, 25
Dioxin, dibenzofurans, monoclonal antibodies, immunoassay, 229
DNA repair, nitrofuran, 5-nitrofurfural, phototoxicity, 103
DNA, 3-*tert*-4-hydroxyansiole, covalent binding, RNA, protein, 13

Endotoxin, tolerance, limulus amebocyte lysate assay, 257
Enzyme activation, aminolevulinic acid dehydratase, ALA-d, blood, erythrocyte, bird, 165
Erythrocyte, aminolevulinic acid dehydratase, ALA-d, birds, lead, heavy metal, blood, 155
Erythrocyte, aminolevulinic acid dehydratase, ALA-d, blood, lead, enzyme activation, bird, 165
Ethyl, alcohol, liver, glutathione, hepatotoxicity, glutamic-pyruvic-transaminase, sorbitol dehydrogenase, 213
Excretion, cadmium, tissue distribution, sodium *N*-benzyl-D-glucamine dithiocarbamate, chelating effect, 93

Forestomach contractility, lead acetate, 65
Fungicides, succinimides, glutathione, diethyl maleate, halogenated hydrocarbons, aminooxyacetic acid, 25

Glutamic-pyruvic-transaminase, alcohol, ethyl, liver, glutathione, hepatotoxicity, sorbitol dehydrogenase, 213
Glutathione, alcohol, ethyl, liver, hepatotoxicity, glutamic-pyruvic-transaminase, sorbitol dehydrogenase, 213
Glutathione, succinimides, fungicides, diethyl maleate, halogenated hydrocarbons, aminooxyacetic acid, 25

Halogenated hydrocarbons, injury, hepatocyte, solvent effects, 319
Halogenated hydrocarbons, succinimides, fungicides, glutathione, diethyl maleate, aminooxyacetic acid, 25
Heavy metal, aminolevulinic acid dehydratase, ALA-d, birds, lead, erythrocyte, blood, 155
Hepatocyte, injury, halogenated hydrocarbons, solvent effects, 319
Hepatotoxicity, alcohol, ethyl, liver, glutathione, glutamic-pyruvic-transaminase, sorbitol dehydrogenase, 213
Hexachlorobenzene, cytochrome(s), phospholipids, membrane(s), arachidonic acid, 291

Inhalation, cigarette smoke, pulmonary thiols, systemic thiols, 203
Immunoassay, dioxin, dibenzofurans, monoclonal antibodies, 229
Inhibition of intestinal Ca absorption, cadmium, intestinal Ca-binding protein, intestinal Cd-binding protein, Ca absorption, intestinal mucosa, metallothionein, Cd toxicity, ^{109}Cd, ^{45}Ca, 1
Injury, hepatocyte, halogenated hydrocarbons, solvent effects, 319
Intestinal Ca-binding protein, cadmium, intestinal Cd-binding protein, Ca absorption, intestinal mucosa, metallothionein, inhibition of intestinal Ca absorption, Cd toxicity, ^{109}Cd, ^{45}Ca, 1
Intestinal Cd-binding protein, cadmium, intestinal Ca-binding protein, Ca absorption, intestinal mucosa, metallothionein, inhibition of intestinal Ca absorption, Cd toxicity, ^{109}Cd, ^{45}Ca, 1
Intestinal mucosa, cadmium, intestinal Ca-binding protein, intestinal Cd-binding protein, Ca absorption, metallothionein, inhibition of intestinal Ca absorption, Cd toxicity, ^{109}Cd, ^{45}Ca, 1

Lead acetate, forestomach contractility, 65
Lead, aminolevulinic acid dehydratase, ALA-d, birds, heavy metal, erythrocyte, blood, 155
Lead, aminolevulinic acid dehydratase, ALA-d, blood, erythrocyte, enzyme activation, bird, 165
Limulus amebocyte lysate assay, endotoxin, tolerance, 257
Lipid peroxidation, cyclophosphamide, acrolein, oxygen, lung toxicity, 79
Lipid peroxidation, silver toxicity, malondialdehyde, selenium, nickel, 135
Liver, alcohol, ethyl, glutathione, hepatotoxicity, glutamic-pyruvic-transaminase, sorbitol dehydrogenase, 213
Luminal and basolateral membrane vesicles, cadmium-metallothionein, cadmium, calcium, nephrotoxicity, proteinuria, calcuria, 307
Lung toxicity, cyclophosphamide, acrolein, oxygen, lipid peroxidation, 79

Malondialdehyde, silver toxicity, lipid peroxidation, selenium, nickel, 135
Manganese, methylcyclopentadienyl manganese tricarbonyl (MMT), seizures, [^{3}H]TBOB, chloride channel, 193
Metallothionein, cadmium, intestinal Ca-binding protein, intestinal Cd-binding protein, Ca absorptoon, intestinal mucosa, inhibitior of intestinal Ca absorption, ^{109}Cd, ^{45}Ca, 1
Metallothionein-like, cadmium, monkey, brain, 53
Methylcyclopentadienyl manganese tricarbonyl (MMT), seizures, [^{3}H]TBOB, chloride channel, manganese, 193
Monkey, cadmium, metallothionein-like, brain, 53
Monoclonal antibodies, dioxin, dibenzofurans, immunoassay, 229
Mycotoxins, bacterial toxicity assay, swarming inhibition, toxins, 185
Mycotoxin, diacetoxyscirpenol(3-hydroxy-4,15-diacetoxy-12,13-epoxytrichothec-9-ene), trichothecene, teratogen, 245

Nephrotoxicity, cadmium-metallothionein, cadmium, calcium proteinuria, calcuria, luminal and basolateral membrane vesicles, 307
Nephrotoxicity, succinimides, biotransformation, 269
Nickel, silver toxicity, lipid peroxidation, malondialdehyde, selenium, 135
Nicotine, polymorphonuclear leukocytes, chemotaxis, superoxide anion, cigarette smoke, 45
5-Nitrofurfural, nitrofuran, phototoxicity, DNA-repair, 103

Nitrofuran, 5-nitrofurfural, phototoxicity, DNA-repair, 103

Oxygen, cyclophosphamide, acrolein, lung toxicity, lipid peroxidation, 79

Phospholipid changes, xylene, toluene, aromatic solvent, brain lipids, 123
Phospholipids, hexachlorobenzene, cytochrome(s), membrane(s), arachidonic acid, 291
Phototoxicity, nitrofuran, 5-nitrofurfural, DNA-repair, 103
Polymorphonuclear leukocytes, chemotaxis, superoxide anion, nicotine, cigarette smoke, 45
Protection, benzo[*a*]pyrene metabolism, rat lung perfusion, combined liver-lung perfusion, 143
Protein, 3-*tert*-butyl-4-hydroxyanisole, covalent binding, DNA, RNA, 13
Proteinuria, cadmium-metallothionein, cadmium, calcium nephrotoxicity, calcuria, luminal and basolateral membrane vesicles, 307
Pulmonary thiols, cigarette smoke, inhalation, systemic thiols, 203

Rat lung perfusion, benzo[*a*]pyrene metabolism, combined liver-lung perfusion, protection, 143
RNA, 3-*tert*-butyl-4-hydroxyanisole, covalent binding, DNA, protein, 13
Rodent lungs, sidestream cigarette smoke, aryl hydrocarbon hydroxylase, benzo[α]pyrene metabolism, chronic smoke exposure, 177

Seizures, methylcyclopentadienyl manganese tricarbonyl (MMT), [^{3}H]TBOB, chloride channel, manganese, 193
Selenium, silver toxicity, lipid peroxidation, malondialdehyde, nickel, 135
Sidestream cigarette smoke, aryl hydrocarbon hydroxylase, rodent lungs, benzo[α]pyrene metabolism, chronic smoke exposure, 177
Silver toxicity, lipid peroxidation, malondialdehyde, selenium, nickel, 135
Sodium *N*-benzyl-D-glucamine dithiocarbamate, cadmium, tissue distribution, excretion, chelating effect, 93
Sodium *N*-benzyl-D-glucamine dithiocarbamate, cadmium, tissue distribution, excretion, chelating effect, 93
Solvent effects, hepatocyte, injury, halogenated hydrocarbons, 319
Sorbitol dehydrogenase, alcohol, ethyl, liver, glutathione, hepatotoxicity, glutamic-pyruvic-transaminase, 213
Stress, adrenocorticotropin, corticosterone, cadmium, zinc, 113
Succinimides, fungicides, glutathione, diethyl maleate, halogenated hydrocarbons, aminooxyacetic acid, 25
Succinimides, nephrotoxicity, biotransformation, 269
Superoxide anion, polymorphonuclear leukocytes, chemotaxis, nicotine, cigarette smoke, 45
Swarming inhibition, bacterial toxicity assay, mycotoxins, toxins, 185
Systemic thiols, cigarette smoke, inhalation, pulmonary thiols, 203

[^{3}H] TBOB, methylcyclopentadienyl manganese tricarbonyl (MMT), seizures, chloride channel, manganese, 193
3-*tert*-Butyl-4-hydroxyanisole, covalent binding, DNA, RNA, protein, 13
Teratogen, diacetoxyscirpenol(3-hydroxy-4,15,diacetoxy-12,13-epoxytrichothec-9-ene), trichothecene, mycotoxin, 245
Tissue distribution, cadmium, excretion, sodium *N*-benzyl-D-glucamine dithiocarbamate, chelating effect, 93
Tolerance, endotoxin, limulus amebocyte lysate assay, 257
Toluene, xylene, aromatic solvent, brain lipids, phospholipid changes, 123
Toxins, bacterial toxicity assay, mycotoxins, swarming inhibitions, 185
Trichothecene, diacetoxyscirpenol(3-hydroxy-4,15-diacetoxy-12,13-epoxytrichothec-9-ene), teratogen, mycotoxin, 245

Xylene, toluene, aromatic solvent, brain lipids, phospholipid changes, 123

Zinc, adrenocorticotropin, corticosterone, cadmium stress, 113

Toxicology, 45 (1987) 339—340
Elsevier Scientific Publishers Ireland Ltd.

TOXICOLOGY

AUTHOR INDEX

Volume 45 (1987)

Akagi, M. 257
Ando, M. 1
Armario, A. 113
Asamoto, M. 13

Beijersbergen van Henegouwen, G.M.J. 103
Berger, M.L. 319
Bolton, B. 24
Brattsand, R. 203
Brown, B.I. 24
Brown, P.I. 269
Busker, R.W. 103

Cantoni, L. 291
Clement, B.A. 245
Cotgreave, I.A. 203

Fishman, B.E. 193
Foth, H. 143

Gairola, C.G. 177
Gans, H. 257
Gianutsos, G. 193
Gillespie, M.N. 45
Gill, K.D. 53
Graziani, A. 291
Gulati, S. 53

Hagiwara, A. 13
Haglid, K. 123
Harvey, R.B. 245
Hidalgo, J. 113
Hirose, M. 13
Honda, T. 93

Ito, N. 13

Paliwal, V.K. 53
Patel, J.M. 79
Pentz, R. 213
Phillips, T.D. 245

Jay, M. 45
Jin, T. 307
Johansson, U. 203

Kahl, G.F. 143
Kahl, R. 143
Kaminaka, K. 93
Kaneko, H. 13
Kiyozumi, M. 93
Kjellstrand, P. 123
Kojima, S. 45,93
Kubena, L.F. 245
Kyrklund, T. 123

Leffler, P. 307
Lenz, P. 185

Matsui, S. 1
Mayura, K. 245
McGinley, P.A. 193
Miyamoto, J. 13
Moldéus, P. 203
Mollière, M. 143
Mori, K. 257

Nath, R. 53
Nordberg, G.F. 307

Oda, Y. 93
Owasoyo, J.O. 45

Rankin, G.O. 24,269
Richmond, C.D. 269
Rizzardini, M. 291
Rogers, N. 229
Rungby, J. 135
Ryden, E.B. 65

Saito, S. 13
Scheuhammer, A.M. 155,165
Senba, Y. 93

Sharma, M. 53
Smith, E.E. 245
Sozeri, T. 319
Stanker, L.H. 229
Strubelt, O. 213
Süssmuth, R. 185

Tacconi, M.T. 291
Takamatsu, Y. 13
Teets, V.J. 24,269

Vanderlaan, M. 229

Walsh, C.T. 65
Wang, R.T. 269
Watkins, B. 229

Yamaguchi, Y. 257
Yang, D.G. 24
Yang, D.J. 269
Yoshitake, A. 13
Younes, M. 213

Toxicology, 45 (1987) 341—343
Elsevier Scientific Publishers Ireland Ltd.

TOXICOLOGY

CONTENTS

Volume 45 (1987)

Effect of cadmium on vitamin D-non-stimulated intestinal calcium absorption in rats **(Cadmium does not appear to inhibit calcium transport by binding to a transport protein)**
by M. Ando and S. Matsui (Tokyo, Japan) . . . . . 1—11

Metabolism of 2- and 3-*tert*-butyl-4-hydroxyanisole(2- and 3-BHA) in the rat (II): Metabolism in forestomach and covalent binding to tissue macromolecules **(BHA appears to act without metabolic activation on forestomach epithelium)**
by M. Hirose, M. Asamoto, A. Hagiwara, N. Ito, H. Kaneko, S. Saito, Y. Takamatsu, A. Yoshitake and J. Miyamoto (Nagoya and Hyogo, Japan) . 13—24

Role of glutathione in acute *N*-(3,5-dichlorophenyl)succinimide-induced nephrotoxicity in Sprague-Dawley and Fischer 344 rats **(A glutathione or cysteine conjugate of NDPS may be responsible for NDPS nephrotoxicity)**
by D.J. Yang, V.J. Teets, B. Bolton, P.I. Brown and G.O. Rankin (Huntington, WV) . . . . . 24—44

Enhanced chemotaxis and superoxide anion production by polymorphonuclear leukocytes from nicotine-treated and smoke-exposed rats **(Both mainstream and sidestream smoke enhances superoxide anion release, but only mainstream smoke enhances chemotaxis)**
by M.N. Gillespie, J.O. Owasoyo, S. Kojima and M. Jay (Lexington, KY) . . 45—52

Isolation and characterization of a metallothionein-like protein from monkey brain **(A cerebral cadmium binding metallothionein differs in some aspects from the hepatic one but is immunologically similar)**
by S. Gulati, V.K. Paliwal, M. Sharma, K.D. Gill and R. Nath (Chandigarh, India) . . . . . 53—64

The effect of lead on cholinergic contractile function in the rat forestomach **(Lead intoxication does not impair the contractile apparatus of the forestomach smooth muscle)**
by E.B. Ryden and C.T. Walsh (Boston, MA) . . . . . 65—78

Stimulation of cyclophosphamide-induced pulmonary microsomal lipid peroxidation by oxygen **(Cyclophosphamide-induced microsomal lipid peroxidation may be mediated through reactive O_2 species and perhaps acrolein and metabolites)**
by J.M. Patel, (Gainesville, FL) . . . . . 79—91

Effect of *N*-benzyl-D-glucamine dithiocarbamate on distribution and excretion of cadmium in rats **(NBG-DTC increased biliary excretion of cadmium but produced only a small increase in urinary excretion)**
S. Kojima, M. Kiyozumi, T. Honda, K. Kaminaka, Y. Oda and Y. Senba (Kumamoto, Japan) . . . . . 93—102

Cytotoxicity and induction of repairable DNA damage by photoactivated 5-nitrofurfural **(Light decomposes 5-nitrofurfural to a genotoxic product)**
by R.W. Busker, G.M.J. Beijersbergen van Henegouwen (Leiden, The Netherlands) . . . . . 103—112

Short Communication

Effect of Cd administration on the pituitary-adrenal axis **(Cadmium sulfate increases the corticosterone and ACTH levels in rats)**
by J. Hidalgo and A. Armario (Barcelona, Spain) . . . . . 113—116

Announcement 117

Contents of journals relating to Toxicology . . . . . 119—122

Brain lipid changes in rats exposed to xylene and toluene **(The solvents produce some changes in lipid composition)**
by T. Kyrklund, P. Kjellstrand and K. Haglid (Lund, Sweden) . . . . . 123—133

Silver-induced lipid peroxidation in mice: interactions with selenium and nickel **(Silver lactate induces an increase in hepatic lipid peroxidation that is further modified by selenite and nickel)**
by J. Rungby (Aarhus, Denmark) . . . . . 135—142

Metabolism of benzo[*a*]pyrene in the combined rat liver — lung perfusion system **(A tandem lung-liver perfusion decreases the exposure of the lung to toxic substances)**
by M. Mollière, H. Foth, R. Kahl and G.F. Kahl (Göttingen and Berlin, F.R.G.) . . . . . 143—154

Erythrocyte δ-aminolevulinic acid dehydratase in birds. I. The effects of lead and other metals in vitro **(Lead is a potent inhibitor of the avian enzyme)**
by A.M. Scheuhammer (Ontario, Canada) . . . . . 155—163

Erythrocyte δ-aminolevulinic acid dehydratase in birds. II. The effects of lead exposure in vivo **(The ratio activated-non activated enzyme in red blood cells is a sensitive indicator of lead exposure in birds)**
by A.M. Scheuhammer (Ontario, Canada) . . . . . 165—175

Pulmonary aryl hydrocarbon hydroxylase activity of mice, rats and guinea pigs following long term exposure to mainstream and sidestream cigarette smoke **(Sidestream smoke is as good an inducer of pulmonary AHH in rats and mice as is mainstream smoke)**
by C.G. Gairola (Lexington, KY) . . . . . 177—184

A highly sensitive bacterial assay for toxins based on swarming inhibition, and comparison with the cup plate assay based on growth inhibition **(The inhibition of bacterial swarming is proposed as an assay for toxins)**
by P. Lenz and R. Süssmuth (Stuttgart, F.R.G.) . . . . . 185—191

Neurotoxic effects of methylcyclopentadienyl manganese tricarbonyl (MMT) in the mouse: basis of MTT-induced seizure activity **(Seizures are most likely caused by MMT and not by elemental Mn)**
by B.E. Fishman, P.A. McGinley and G. Gianutsos (Storrs, CT) . . . . . 193—201

The effect of acute cigarette smoke inhalation on pulmonary and systemic cysteine and glutathione redox states in the rat **(Tobacco smoke reduces glutathione in lung cells)**
by I.A. Cotgreave, U. Johansson, P. Moldéus and R. Brattsand (Stockholm and Lund, Sweden) . . . . . 203—212

Enhancement by glutathione depletion of ethanol-induced acute hepatotoxicity in vitro and in vivo **(Phorone-induced glutathione depletion increases the hepatocellular toxicity of ethanol)**
by O. Strubelt, M. Younes and R. Pentz (Lübeck, F.R.G.) . . . . . 213—223

Contents of journals relating to Toxicology . . . . . 225—228

Monoclonal antibodies for dioxin: antibody characterization and assay development **(The competition ELISA detects 0.5 ng of 2,3,7,8-TCDD)**
by. L.H. Stanker, B. Watkins, N. Rogers and M. Vanderlaan (Livermore, CA) 229—243

Developmental toxicity of diacetoxyscirpenol in the mouse **(When injected i.p., in the range of 1—6 mg/kg, diacetoxyscirpenol is teratogenic)**
by K. Mayura, E.E. Smith, B.A. Clement, R.B. Harvey, L.F. Kubena and T.D. Phillips (College Station, TX) . . . . . 245—255

Endotoxin inactivation by the humoral components in the tolerant rat serum **(Serum from tolerant rats contain large quantities of lipopolysaccharide inhibitors)**
by Y. Yamaguchi, K. Mori, H. Gans and M. Akagi (Kumamoto, Japan, Urbana-Champaign and Danville, IL) . . . . . 257—268

Effect of microsomal enzyme activity modulation on *N*-(3,5-dichlorophenyl)-succinimide-induced nephrotoxicity **(A metabolite, possibly of extrarenal origin, contributes to NDPS toxicity)**
G.O. Rankin, D.J. Yang, C.D. Richmond, V.J. Teets, R.T. Wang and P.I. Brown (Huntington, WV) . . . . . 269—289

Comparison of hexachlorobenzene-induced alterations of microsomal membrane composition and monooxygenase activity in male and female rats **(HCB treatment increases phospholipids in microsomal membranes)**
by L. Cantoni, M. Rizzardini, M.T. Tacconi and A. Graziani (Milan, Italy) 291—305

Cadmium-metallothionein nephrotoxicity in the rat: transient calcuria and proteinuria **(0.4 mg Cd/kg injected as Cd metallothionein temporarily increases protein and calcium excretion)**
by T. Jin, P. Leffler and G.F. Nordberg (Umeå, Sweden) . . . . . 307—317

Rapid halogenated hydrocarbon toxicity in isolated hepatocytes is mediated by direct solvent effects **(Inhibition of cellular respiration and release of aspartate aminotransferase correlate with oil/water partition coefficient)**
by M.L. Berger and T. Sozeri (Cincinnati, OH) . . . . . 319—330

Contents of journals relating to Toxicology . . . . . 331—332
Announcement 333
Subject Index Volume 45 . . . . . 335—338
Author Index Volume 45 . . . . . 339—340
Volume Contents Volume 45 . . . . . 341—343